

12. (Twice Amended) An RNA polymerase comprising an RNA polymerase of claim 11 with a further substitution, insertion, or deletion of an amino acid other than the amino acid residues 644 and/or 667 of SEQ ID NO:2, and wherein the further substitution, insertion, or deletion does not substantially affect the RNA polymerase activity.

15. (Three Times Amended) An RNA polymerase comprising an RNA polymerase of claim 13 with a further mutation wherein the 665th amino acid residue, leucine, of SEQ ID NO:2 of the wild type T7 RNA polymerase has been replaced with proline.

17. (Twice Amended) An RNA polymerase comprising an RNA polymerase of claim 16 with a further mutation wherein the 665th amino acid residue, leucine, of SEQ ID NO:2 of the wild type T7 RNA polymerase has been replaced with proline.

19. (Twice Amended) An RNA polymerase comprising an RNA polymerase of claim 18 with a further mutation wherein the RNA polymerase from T3 phage has a further substitution, insertion, or deletion of <sup>an</sup> amino acid other than the amino acid residues 645 and 668 of SEQ ID NO:14, and wherein the further substitution, insertion, or deletion does not substantially affect the RNA polymerase activity.

21. (Twice Amended) An RNA polymerase comprising an RNA polymerase of claim 20 with a further mutation wherein the RNA polymerase from K11 phage has a

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further substitution, insertion, or deletion of amino acid other than the amino acid residues  
664-669 and 690 of SEQ ID NO:15, and wherein the further substitution, insertion, or  
deletion does not substantially affect the RNA polymerase activity.

*E9*  
23. (Twice Amended) An RNA polymerase comprising an RNA polymerase of  
claim 22 with a further mutation wherein the RNA polymerase from SP6 phage has a  
further substitution, insertion, or deletion of an amino acid other than the amino acid  
residues 633-638 and 670 of SEQ ID NO:16, and wherein the further substitution,  
insertion, or deletion does not substantially affect the RNA polymerase activity.

*E10*  
26. (Amended) An RNA polymerase consisting of a wild type RNA polymerase  
wherein at least one amino acid present in a region of the wild type RNA polymerase  
corresponding to amino acid residues 641-667 of SEQ ID NO:2 of RNA polymerase from  
T7 phage has been replaced with tyrosine to enhance the ability of the RNA polymerase to  
incorporate 3'-deoxyribonucleotides and derivatives thereof into a polynucleotide in  
comparison with the corresponding wild type RNA polymerase.